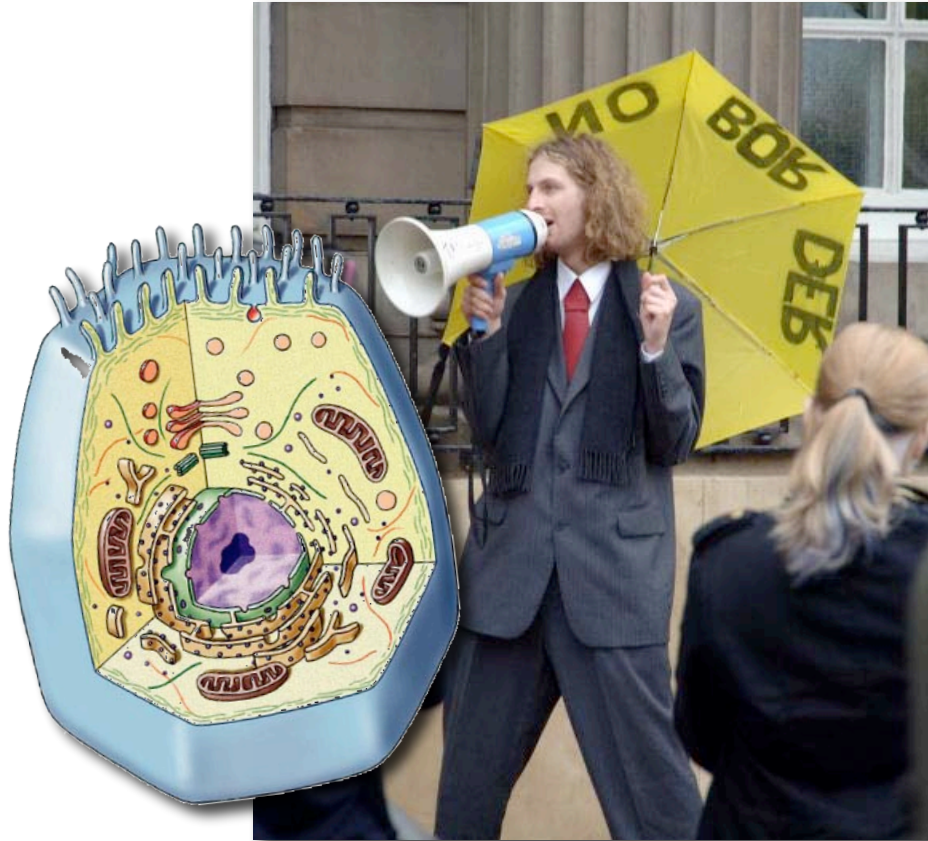


Tour of the Cell 3



Cells gotta work to live!

■ What jobs do cells have to do?

◆ make proteins

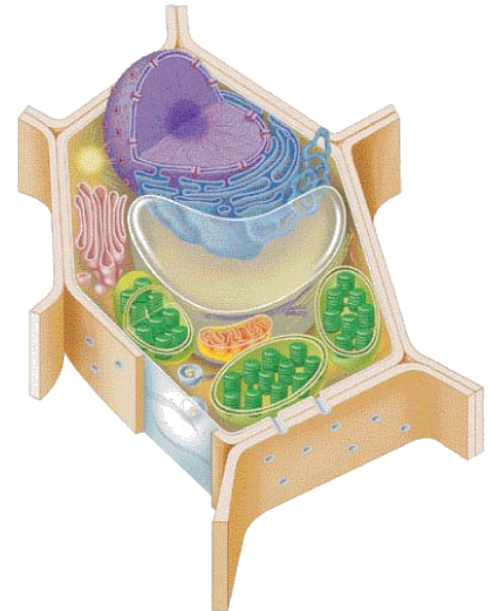
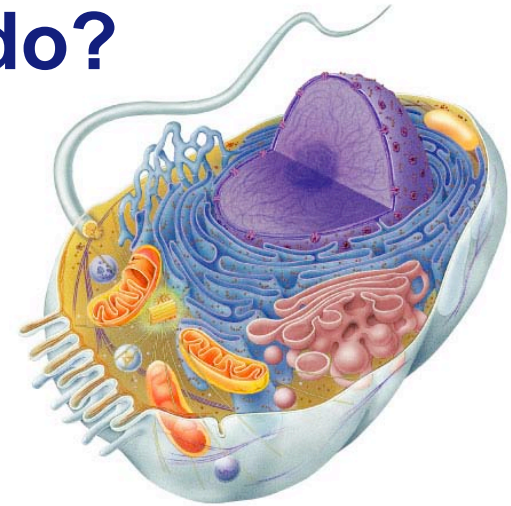
- proteins control every cell function

◆ make energy

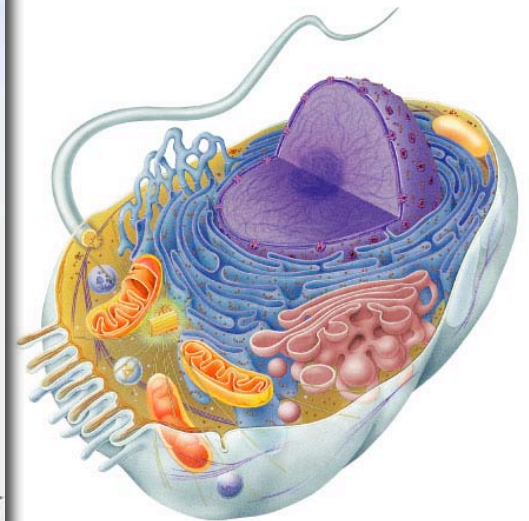
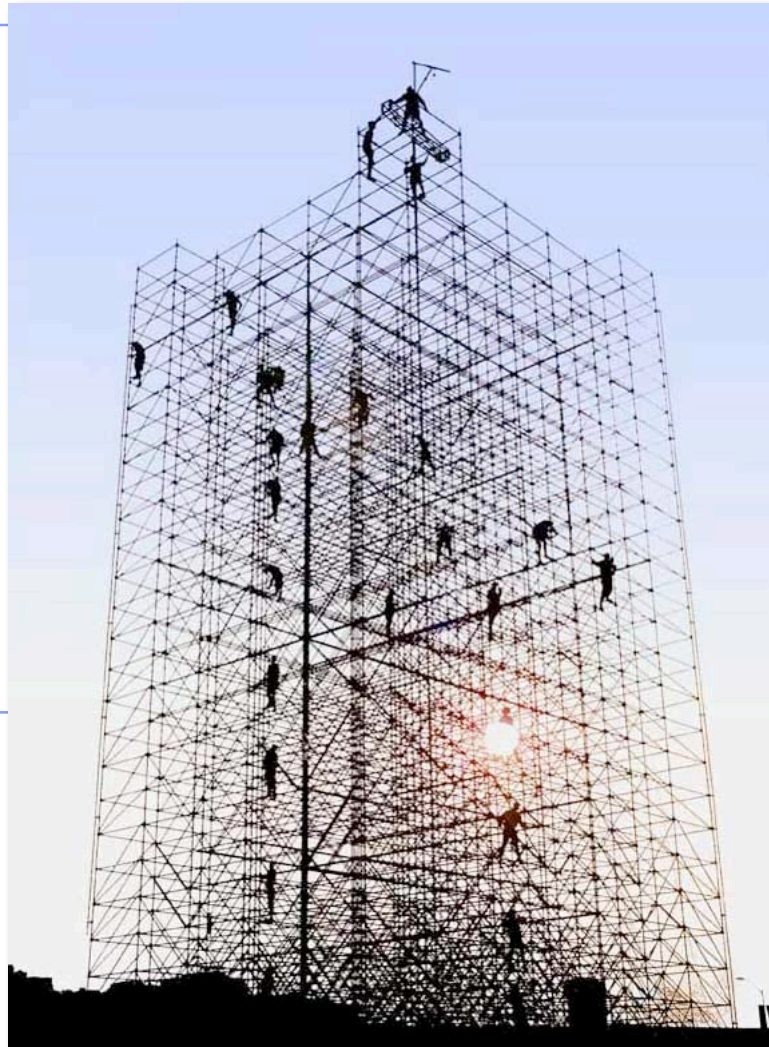
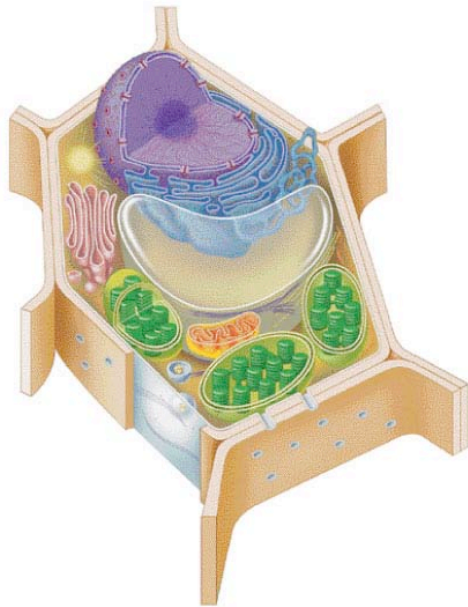
- for daily life
- for growth

◆ make more cells

- growth
- repair
- renewal



Making New Cells



Cytoskeleton

■ Function

◆ structural support

- maintains shape of cell
- provides anchorage for organelles

◆ protein fibers

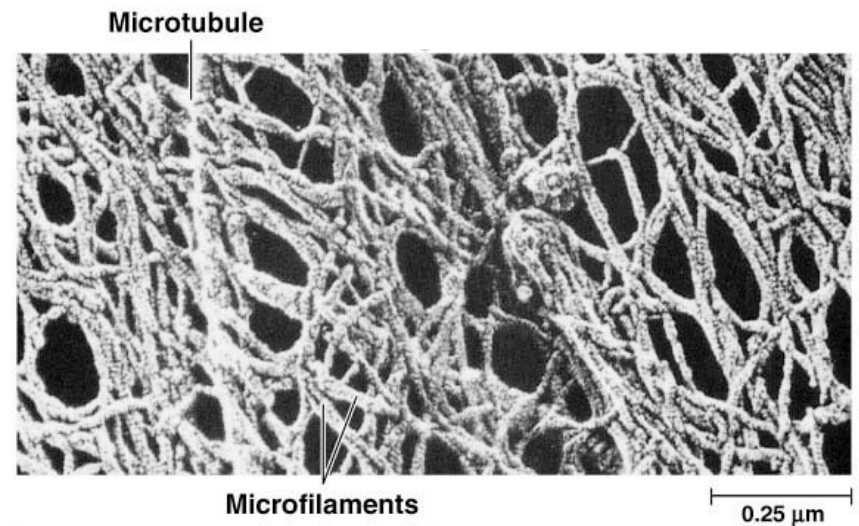
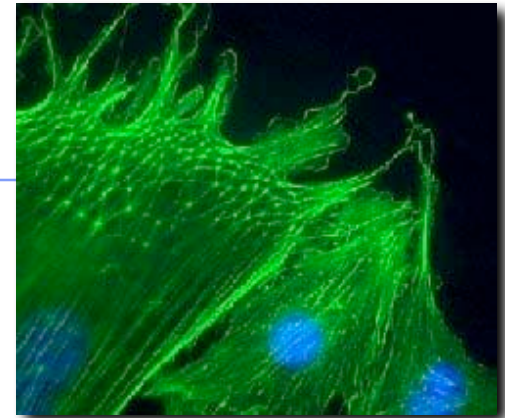
- microfilaments, intermediate filaments, microtubules

◆ motility

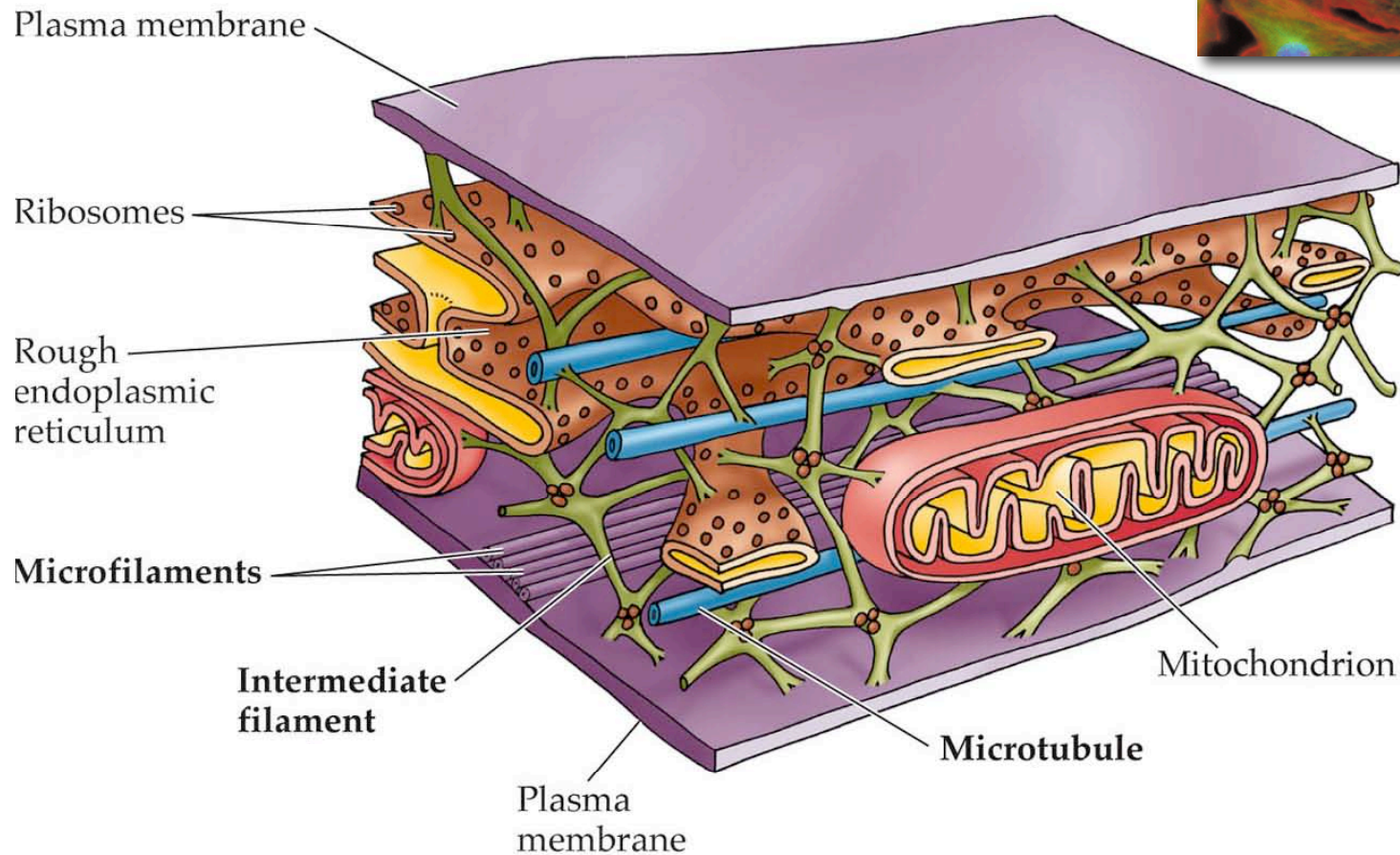
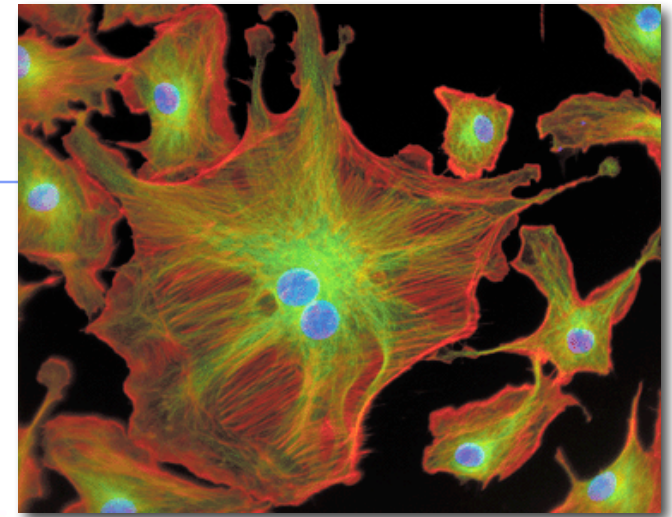
- cell locomotion
- cilia, flagella, etc.

◆ regulation

- organizes structures & activities of cell



Cytoskeleton

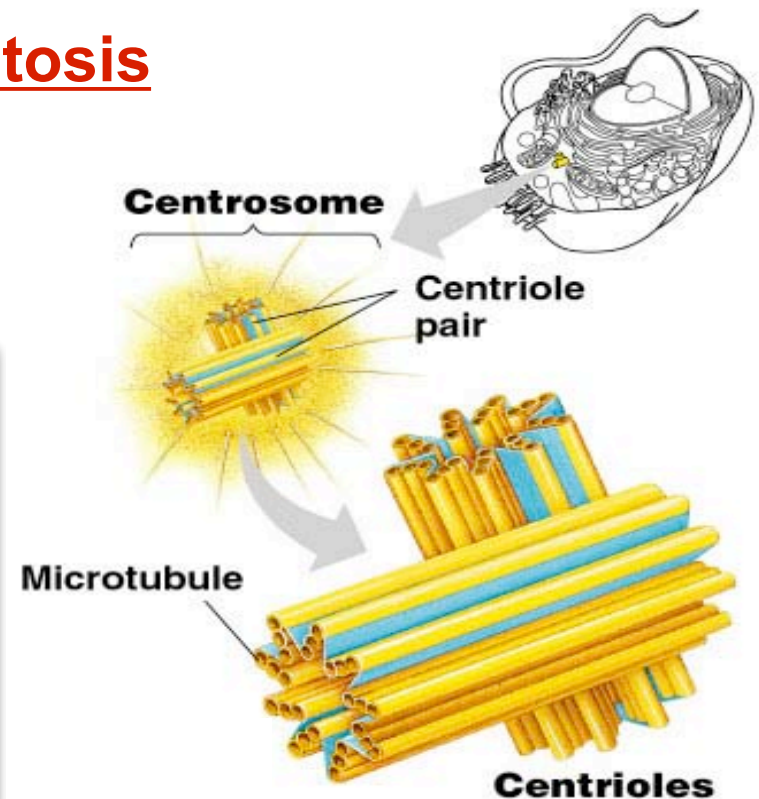
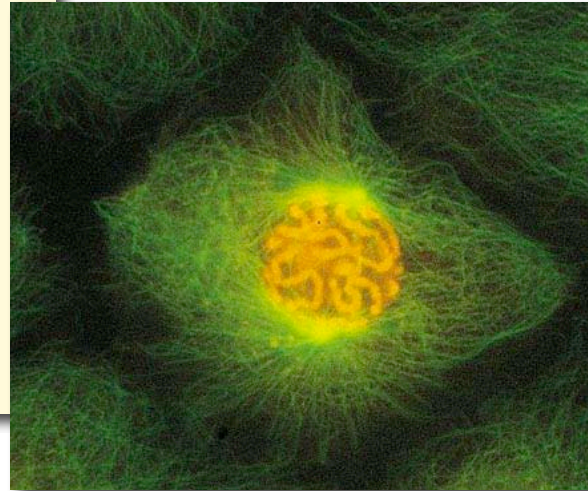
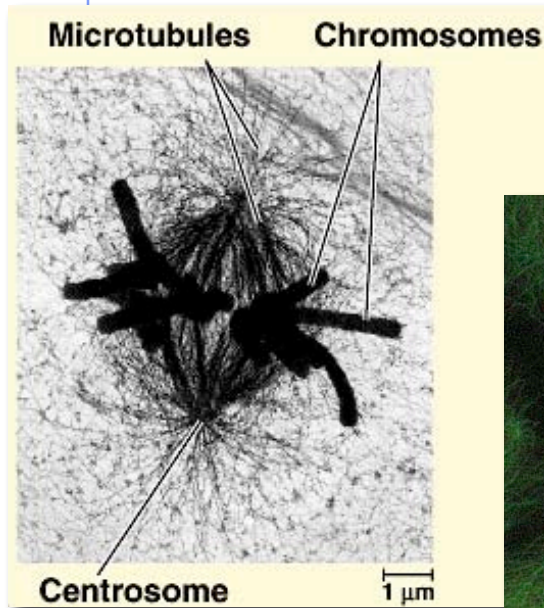


- **actin**
- **microtubule**
- **nuclei**

Centrioles

- Cell division

- ◆ in animal cells, pair of centrioles organize microtubules
 - spindle fibers
- ◆ guide chromosomes in mitosis



Any Questions??

